

Test Thursday

$$T = \frac{1}{f}$$

$$0.045$$

$$(Hz) f = \frac{1}{T(s)}$$

$$22 Hz$$

$$\left(\frac{1}{x}\right) \left(x^{-1}\right) \left[Inv\right]$$

$$6 \text{ cycles } \frac{1 \text{ min}}{60 \text{ sec}}$$

$$26 s = 0.038$$

$$f = \frac{6}{60 s} = \frac{1}{10 s} = 0.1 \text{ Hz}$$

$$V = f \lambda$$

$$\frac{m}{s} = \frac{1}{s} \times m$$

$$\frac{m}{s} V = \frac{d}{t} \frac{m}{s}$$

$$V_{\text{light}} = 3.00 \times 10^8 \text{ m/s}$$

$$343 \text{ m/s} \quad n_{\text{air}} = 1.$$

$$\frac{n_2^*}{n_1^*} = \frac{\sin \angle i^*}{\sin \angle r^*} = \frac{V_1^*}{V_2^*} = \frac{\lambda_1}{\lambda_2}$$

$$\frac{\sin \text{crit } \angle}{\sin 90^\circ} = \frac{n_2}{n_1} \quad \text{total internal reflection}$$

(n_2) into - smaller index of refraction

Review

P. 372 # 2, 4, 5, 9, 10, 12, 23, 24, 25, 27, 28

P. 442 # 13-17, P. 445 # 53, 54, 56, 57, 61, 62

Due Wednesday

Supplementary

P. 447 # 22, 23, 39-43, 50, 52-55, 62

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